ADDENDUM NO. 3

Date March 26, 2020

City of Austin

Project Name Anderson Mill Road Regional Mobility Improvements

C.I.P. No. 11880.002 IFB No.: 6100 CLMC 779

This Addendum forms a part of the Contract and corrects or modifies original Bid Documents, dated February 17, 2020. **Acknowledge receipt of this addendum in space provided on bid form.** Failure to do so may subject bidder to disqualification.

A. Project Manual Revisions:

VOLUME 1 of 2: REMOVED IN ITS ENTIRETY TABLE OF CONTENTS (REV. DATE 12/30/2019) AND REPLACED WITH ATTACHED ADDENDUM #3 TABLE OF CONTENTS (REV. DATE 12/30/2019): CHANGED SP608S DATE; ADDED 16120S;

VOLUME 1 of 2: REMOVE IN ITS ENTIRETY 00300U (REV. DATE 10/22/2019) AND REPLACE WITH ATTACHED ADDENDUM #3 00300U (REV. DATE 10/22/2019): CHANGED DESCRIPTION FOR PAY ITEMS 403S-SY, SP559S-4x0.33 OR SP559S-5x0.5, AND QUANTITY FOR PAY ITEMS 510-ASD-18, 510-ASD-24 & 591S-D; ADDED PAY ITEM 16120S;

VOLUME 1 of 2: REMOVE IN ITS ENTIRETY SP480S (REV. DATE 05/09/2019) AND REPLACE WITH ATTACHED ADDENDUM #3 SP480S (REV. DATE 05/09/2019): CHANGED FOOTER FORMAT; ADDED 16120S;

VOLUME 1 of 2: ADD IN ITS ENTIRETY SP559S (REV. DATE 03/24/2020) IN ADDENDUM #3;

VOLUME 1 of 2: REMOVE IN ITS ENTIRETY SP608S (REV. DATE 12/02/2019) AND REPLACE WITH ATTACHED ADDENDUM #3 SP608S (REV. DATE 02/28/2020): CHANGED REVISION DATE AND SUBMITTAL REQUIREMENTS.

B. Drawing Revisions:

REPLACE: SHEET 82 IN ITS ENTIRETY WITH THE ATTACHED SHEET 82;
REPLACE: SHEET 87 IN ITS ENTIRETY WITH THE ATTACHED SHEET 87;
REPLACE: SHEET 94 IN ITS ENTIRETY WITH THE ATTACHED SHEET 94;
REPLACE: SHEET 96 IN ITS ENTIRETY WITH THE ATTACHED SHEET 96.

This addendum consists of 41 pages / 4 sheets.

Octavio Garza, PE 3-27-2020

Approved by OWNER

Xiaoqin Zhang, P.E. Digitally signed by Xiaoqin Zhang, P.E. DN: C=US, E=xiaoqin.zhang@austintexas.gov, O=Public Works Engineering Services Division, OU=City of Austin, CN="Xiaoqin Zhang, P.E." Date: 2020.03.27 10:01:12-05'00'

STATE OF TEXAS
XIAOQIN ZHANG, P.E.
96436
LICENSED
PROFESSIONAL ENGINEER
03/27/2020
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY XIAOQIN ZHANG P.E., LIC.#96436

Approved by ENGINEER/ARCHITECT (as applicable per license requirements)

END

Document Number		Title

SPECIFICATIONS

Division 1 - General Requirements

City Standard Technical Specifications

Series 100 – Earthwork

Series 200 – Subgrade and Base

Series 300 – Street Surface Courses

Series – 400 Concrete and Structures

Series 500 – Pipe and Appurtenances

END

The undersigned, in compliance with the Invitation for Bids for construction of the following Project for the City of Austin, Texas:

Solicitation No.:	6100 CLMC 779
Project:	Anderson Mill Road Regional Mobility Improvement
CIP ID No.:	**11880.002**

Having examined the Project Manual, Drawings and Addenda, the site of the proposed Work and being familiar with all of the conditions surrounding construction of the proposed Project, having conducted all inquiries, tests and investigations deemed necessary and proper; hereby proposes to furnish all labor, permits, material, machinery, tools, supplies and equipment, and incidentals, and to perform all Work required for construction of the Project in accordance with the Project Manual, Drawings and Addenda within the time indicated.

Note: The Bidder will enter the line item subtotal in the "Amount" column below, which is the product of the estimated "Quantity" multiplied by the "Unit Price". Any mathematical errors will be corrected for the purpose of determining the correct Amount to be entered in the Bid Form. The Amounts, including any corrected Amounts, will then be totaled to determine the actual amount of the Bid.

Bid Item	**Quantity**	**Unit**	**Item Description**	**Unit Price**	**Amount**
101S-B	60.5	100'	Preparing Right of Way	$	$
110S-B	1,269	CY	Street Excavation, Plan Quantity	$	$
130S-A	1,708	CY	Class A (Select Borrow), Plan Quantity	$	$
SS307	5,808	GAL	Tracking-Resistant Asphalt Interlayer (TRAIL)	$	$
315S-D	1,900	SY	Edge Milling	$	$
340S-B4B	4,885	SY	Hot Mix Asphaltic Concrete Pavement, 4 in, Type B	$	$
340S-B2D	32,235	SY	Hot Mix Asphaltic Concrete Pavement, 2 In, Type D	$	$
402S-A	1,269	CY	Controlled Low Strength Material (Fast Set)	$	$
403S-CY	300	CY	Class A Concrete Fill	$	$
403S-EA	4	EA	Splitter Box, Complete In Place	$	$
403S-SY	16	SY	Concrete Pond Access Ramp, Including Reinforcement	$	$
SP411S-A	275	SY	Stamped Concrete	$	$
SP414S-C-SF6	730	SF	Cast-In-Place Portland Cement Concrete Retaining Wall, (6 In Thick) including Reinforcement	$	$

Bid Item	Quantity	Unit	Item Description	Unit Price	Amount
SP414S-C-SF10	5,007	SF	Cast-In-Place Portland Cement Concrete Retaining Wall, (10 In Thick) including Reinforcement	$	$
SP414S-TCB10x3	202	SF	Portland Cement Textured Concrete Block (10 In Thick, 10" Longx3" Deep) Retaining Wall including Reinforcement	$	$
SP414S-TCB20x6	404	SF	Portland Cement Textured Concrete Block (10 In Thick, 20" Longx6" Deep) Retaining Wall including Reinforcement	$	$
430S-A	6,276	LF	P.C. Concrete Curb and Gutter (Excavation)	$	$
SP430S-M	870	LF	Mountable Curb, 12 In. Top Width	$	$
SP430S-W	1,724	LF	30” Width Curb and Gutter	$	$
SP430S-G	860	LF	Splash Guard Median	$	$
SP430S-S	2,880	LF	Saw-tooth Curb	$	$
432S-5	81,087	SF	New P.C. Concrete Sidewalk, 5 Inch Thickness	$	$
433S-C	11,400	SF	Type II P.C. Concrete Driveway	$	$
480S-PRP-4	2,103	LF	Pedestrian ADA Railing Option 3 (Standard 707S-4)	$	$
SP480S-PRP-4R	60	LF	Removable Pedestrian ADA Railing	$	$
480S-RP-1A	16	EA	Curb Ramp with Paver (Type IA)	$	$
480S-RP-1B	9	EA	Curb Ramp with Paver (Type IB)	$	$
504S-1RM	6	EA	Repositioning & Adjusting Water Meters	$	$
504S-3W	3	EA	Adjusting Water Valve Boxes to Grade	$	$
504S-4PB	6	EA	Adjusting Pull Boxes to Grade	$	$
SP504S-EM	7	EA	Adjusting Electric Meter Manhole	$	$
506S-M48	7	EA	Standard Pre-Cast Manhole with Cast-In-Place Base, 48 In Dia.	$	$
506S-M72	1	EA	Standard Pre-Cast Manhole with Cast-In-Place Base, 72 In Dia.	$	$
508S-H18	4	EA	Headwalls, Type Concrete, 18 In. Dia. Pipe	$	$
508S-I24x24	1	EA	Inlet, 24"x24"	$	$
508S-I48X48	3	EA	Inlet, 48"X48"	$	$

Bid Item	Quantity	Unit	Item Description	Unit Price	Amount
508S-I10S	3	EA	Inlet, Standard 10'	$	$
SP508S-I10R	4	EA	Modified Curb Inlet, Recessed	$	$
508S-I15S	1	EA	Inlet, Standard 15'	$	$
509S-1	4,401	LF	Trench Excavation Safety Protective Systems (all depths)	$	$
510-ASD-18	1,010	LF	Pipe, 18-inch RCP Storm Drain, Class 4 (All Depths), Including Excavation & Backfill	$	$
510-ASD-24	145	LF	Pipe, 24-inch RCP Storm Drain, Class 4 (All Depths), Including Excavation & Backfill	$	$
510-ASD-27	60	LF	Pipe, 27-inch RCP Storm Drain, Class 4 (All Depths), Including Excavation & Backfill	$	$
510-AW12	60	LF	Pipe, 12 Inch Dia. (all depths), including Excavation and Backfill	$	$
510-6PVC	596.88	LF	Pipe, 6-inch PVC Storm Drain, (All Depths), Including Excavation & Backfill	$	$
511S-C	1	EA	Pressure or Flow control Valve Assemblies	$	$
551	2,059	LF	Pipe Underdrains, 6 In.	$	$
SP559S-4x0.33	32	LF	Cast-In-Place Concrete Box Culverts (4 FT. x 0.33 FT.)	$	$
SP559S-5x0.5	10	LF	Cast-In-Place Concrete Box Culverts (5 FT. x 0.5 FT.)	$	$
559S-4x2	464	LF	Precast Concrete Box Culverts (4 FT. x 2 FT.)	$	$
591S-A	94	SY	Dry Rock Riprap	$	$
591S-D	465	SY	Mortared Rock Rip-Rap	$	$
SP601S	4,538	CY	Topsoil Mix, Plan Quantity	$	$
602S-A	11,796	SY	Bermuda Block Sodding	$	$
SP608S-CE	8	EA	Planting Type Cedar Elm, Size in inches 3"	$	$
SP608S-GM	150	SY	Gravel Mulch – Installed Per Plan for Rain Gardens and Biofiltration Ponds	$	$
SP608S-LI	2	EA	Planting Type Live Oak, Size in inches 3"	$	$

Bid Item	Quantity	Unit	Item Description	Unit Price	Amount
SP608S-LA	13	EA	Planting Type Lacey Oak, Size in inches 2"	$	$
SP608S-MP	18	EA	Planting Type Mexican Plum, Size in inches 2"	$	$
SP608S-ST	36	EA	Planting Type Smoke Tree, Size in container 20 Gallon	$	$
SP608S-AO	22	EA	Planting Type Anacacho Orchid, Size 45 Gallon	$	$
SP608S-PH	23	EA	Planting Type Possomhaw Holly, Size in container 45 Gallon	$	$
SP608S-P1	706	EA	Planting Type Perennial, Size 1 Gallon	$	$
SP608S-P5	374	EA	Planting Type Perennial, Size 5 Gallon	$	$
SP608S-WQ	2,741	EA	Planting Type Water Quality Pond Perennial, Size 1 Gallon	$	$
SP608S-HM	1,500	CY	Hardwood Mulch, Plan Quantity	$	$
SP608S-PE	12	Month	Plant Establishment	$	$
610S-A	2,800	LF	Protective Fencing Type A Chain Link fence (Typical Application-high damage potential)	$	$
628S-B	320	LF	Sediment Containment Dikes with filter fabric	$	$
639S	285.10	LF	Rock Berm	$	$
648S	9,300	LF	Mulch Sock	$	$
660S	152	CY	Biofiltration Media	$	$
700S-TM	1	LS	Total Mobilization Payment	$	$
701S -AS	350	LF	Chain Link Fence, 6' high	$	$
802S-B	6	EA	Bond Project Sign	$	$
803S-CD	540	Per Calendar Day.	Barricades, Signs, and Traffic Handling	$	$
SP830S	2	EA	Traffic Signal Controller Foundation	$	$
SP831S-5	7	EA	4" Diameter Pedestrian Signal Foundation Type A	$	$

Bid Item	Quantity	Unit	Item Description	Unit Price	Amount
SP831S-342	12	LF	42” diameter Traffic Signal Drilled Shaft Foundations	$	$
SP831S-448	70	LF	48” diameter Traffic Signal Drilled Shaft Foundations	$	$
832S-VSM-3	8	EA	Vehicular Signal Installation, 3 Section, Complete in Place	$	$
832S-VSM-4	2	EA	Vehicular Signal Installation, 4 Section, Complete in Place	$	$
SP832S-VSM-PHB	4	EA	Vehicular Signal Installation, PHB, Complete in Place	$	$
834S-B	34	EA	Traffic Signal Pull Box, Type B	$	$
834S-C	3	EA	Traffic Signal Pull Box, Type C	$	$
SP834S-AE18	2	EA	Pull Box 18 IN. w/Standard Cover	$	$
835S-LT2	26	LF	Installing Traffic Signal Conduit with Conduit 2 inch in diameter	$	$
835S-LT3	7,741	LF	Installing Traffic Signal Conduit with Conduit 3 inch in diameter	$	$
835S-LT4	158	LF	Installing Traffic Signal Conduit with Conduit 4 inch in diameter	$	$
SP838S-PSM	30	EA	Pedestrian Signal Installation (Countdown Type), Complete In Place	$	$
839S-MA30	1	EA	30-foot Mast Arm	$	$
839S-MA35	4	EA	35-foot Mast Arm	$	$
839S-MA40	1	EA	40-footMast Arm	$	$
839S-MAP1	1	EA	Type 1 Mast Arm Pole	$	$
839S-MAP2	5	EA	Type 2 Mast Arm Pole	$	$
841S-TSR	1	EA	Traffic Signal Removal	$	$
SP844S-2BC	4,696	LF	Class 2 Trenching for Traffic Signal Conduit Behind Curb	$	$
SP844S-3BC	497	LF	Class 3 Trenching for Traffic Signal Conduit Behind Curb	$	$
SP844S-3IS	558	LF	Class 3 Trenching for Traffic Signal Conduit In Street	$	$

Bid Item	Quantity	Unit	Item Description	Unit Price	Amount
860S-D	3,300	SF	Pavement Marking Paint (Reflectorized)	$	$
871S-A -24-90-W	2,900	LF	Reflectorized Type I Thermoplastic Pavement Markings 24 inches in width, 90 mils in thickness, Solid White in Color	$	$
871S-B-4-90-W	25	EA	Reflectorized Type I Thermoplastic Pavement Markings Words 4 inches in width, 90 mils in thickness, White in color	$	$
871S-C-W-G	85	EA	Reflectorized Type I Thermoplastic Pavement Markings Shapes, 36 Inches Base, 60 Inches Height, 90 mils in Thickness, Green in Color	$	$
871S-D-W-T	155	EA	Reflectorized Type I Thermoplastic Pavement Markings Symbols 36 Inches in Width, 90 mils in Thickness, White in Color	$	$
871S-D-W-B	6	EA	Reflectorized Type I Thermoplastic Pavement Symbols (pavement bicycle), 90 mils in Thickness, white in Color	$	$
871S-D-W-B-SUP	35	EA	Reflectorized Type I Thermoplastic Pavement Symbols (SUP bicycle), 90 mils in Thickness, white in Color on Black Background	$	$
871S-D-W-Y	10	EA	Reflectorized Type I Thermoplastic Pavement Symbols (yield), 90 mils in Thickness, white in Color	$	$
871S-D-W-P	40	EA	Reflectorized Type I Thermoplastic Pavement Symbols (pedestrian), 90 mils in Thickness, White in Color on Black Background	$	$

Bid Item	Quantity	Unit	Item Description	Unit Price	Amount
871S-E4W	10,850	LF	Reflectorized Type II Paint Pavement Markings 4 inches in width, 100 mils in Thickness, White In Color	$	$
871S-E4Y	8,800	LF	Reflectorized Type II Paint Pavement Markings 4 inches in width, 100 mils in thickness, Yellow in color	$	$
871S-E4BY	5,700	LF	Reflectorized Type II Paint Pavement Markings 4 inches in width, 100 mils in thickness, Broken Yellow in Color	$	$
871S-E8W	4,600	LF	Reflectorized Type II Paint Pavement Markings 8 inches in width, 100 mils in thickness, Solid White in Color	$	$
871S-E8BW	9,600	LF	Reflectorized Type II Plastic Pavement Markings 8 inches in width, 100 mils in thickness, Broken White in Color	$	$
863S-2	280	EA	Reflectorized Pavement Markers (Type I-C)	$	$
863S-3	160	EA	Reflectorized Pavement Markers (Type II-A-A)	$	$
873S-4	20	EA	Refectorized Pavement Markers (Type II-B-B)	$	$
16120S	1	LS	Wiring	$	$
SS1008-PB	38	EA	Accessible Pedestrian Signal Button, Complete In Place	$	$
SS1008-PSC	5	EA	Accessible Pedestrian Signal Control Unit	$	$
SS1040-T	1	EA	Radar Vehicle Detection System, 3 Approach Intersection, Complete in Place	$	$
SS1040-Q	2	EA	Radar Vehicle Detection System, 4 Approach Intersection, Complete in Place	$	$
SS1042	4	EA	CCTV Camera, Complete in Place	$	$

BASE BID		**$**
	(Words)	(Figures)
Base Bid includes Trench Excavation Safety Systems.		

- The "Base Bid" amount must be used in the MBE/WBE Compliance Plan Summary Page to determine subcontractor participation levels for the established MBE/WBE procurement goals.

- The "Base Bid" amount becomes the bidder's "TOTAL BID" if allowances and/or alternates are not included.

In the event of a mathematical error, the correct product, determined by using the "Unit Price" and "Quantity", and the correct sum, determined by totaling the correct line item Amounts, will prevail over the amount entered by the Bidder. The unit prices shown above will be the unit prices used to tabulate the Bid and used in the Contract, if awarded by the City.

Note:

1. MINIMUM WAGES: Workers on Project shall be paid not less than wage rates, including fringe benefits, as published by the Department of Labor (DOL) for Building Construction and Heavy and Highway Trades "AS APPLICABLE" and/or the minimum Wage required by City of Austin Ordinance No. 20160324-015, whichever is higher. The Total Minimum Wage required can be met using any combination of cash and non-cash qualified fringe benefits provided the cash component meets or exceeds the minimum wage required.

Optional Information on Bid Prices Submitted by Computer Printout: In lieu of handwritten unit prices in figures in ink on the Bid forms above, Bidders, at their option, may submit an original computer printout sheet bearing certification by, and signature for, the Bidding firm. The unit prices shown on acceptable printouts will be the unit prices used to tabulate the Bid and used in the Contract if awarded by the City. As a minimum, computer printouts must contain all information and in the format shown on the attached page: "Example of Bid Prices Submitted by Computer Printout" form.

If a computer printout is used, the Bidder must still execute that portion of the unit price Bid form which acknowledges the Bid Guaranty, Time of Completion, Liquidated Damages, and all addenda that may have been issued.

Bids with unit prices by computer printout may be rejected, if:

1. The computer printout does not include the required certification, set forth in the attached "Example".
2. The computer printout is not signed in the name of the firm to whom the Project Manual was issued.
3. The computer printout is non-responsive or otherwise omits required Bid items or includes items not shown on the Bid forms in the Project Manual.
4. The other required Bid documents issued by the City are not fully executed as provided above.
5. The signed Section 00300U is not returned with the signed computer printout.

If the Bid submitted by the Bidder contains both the form furnished by the City, completed according to the instructions, and also a computer printout, completed according to the instructions, unit prices of only one will be considered. In this situation, the unit Bid prices shown on the computer printout will be used to determine the Bid.

BID GUARANTY: A Bid guaranty must be enclosed with this Bid, as required in Section 00020 or Section 00020S, in the amount of not less than five percent (5%) of the total Bid. Following the Bid opening, submitted Bids may not be withdrawn for a period of 90 Calendar Days. Award of Contract will occur within this period, unless mutually agreed between the parties. The Bid guaranty may become the property of the OWNER, or the OWNER may pursue any other action allowed by law, if:

- Bidder withdraws a submitted Bid within the period stated above;
- Bidder fails to submit the required post Bid information within the period specified in Section 00020S or 00100, or any mutually agreed extension of that period;

- or Bidder fails to execute the Contract and furnish the prescribed documentation (bonds, insurance, etc.) needed to complete execution of the Contract within five (5) Calendar Days after notice of award, or any mutually agreed extension of that period.

TIME OF COMPLETION: The undersigned Bidder agrees to commence work on the date specified in the written "Notice to Proceed" to be issued by the OWNER and to **substantially** complete construction of the improvements, as required by the Project Manual, Drawings and Addenda for the Work within **Five Hundred Forty (540) Calendar** Days. **The Bidder further agrees to reach Final Completion within Ninety (90) Calendar Days after Substantial Completion as required by the Project Manual, Drawings and Addenda for the work.** The Bidder further agrees that should the Bidder fail to **finally** complete the Work within the number of days indicated in the Bid or as subsequently adjusted, Bidder shall pay the liquidated damages for each consecutive day thereafter as provided below; unless the OWNER elects to pursue any other action allowed by law.

WAIVER OF ATTORNEY FEES: In submitting its bid, in consideration for the waiver of its right to attorney's fees by the OWNER, the Bidder knowingly and intentionally agrees to and shall waive the right to attorney's fees under Section 271.153 of the Texas Local Government Code in any administrative proceeding, alternative dispute resolution proceeding, or litigation arising out of or connected to any Contract awarded pursuant to this solicitation process.

LIQUIDATED DAMAGES: The Bidder understands and agrees that the timely completion of the described Work is of the essence. The Bidder and OWNER further agree that the OWNER's actual damages for delay caused by failure to timely complete the Project are difficult, if not impossible to measure. However, with respect to the additional administrative and consultant costs to be incurred by OWNER, the reasonable estimate of such damages has been calculated and agreed to by OWNER and Bidder. Therefore, the Bidder and the OWNER agree that for each and every **Calendar Day** the Work or any portion thereof, remains incomplete after the **Substantial Completion** date as established by the above paragraph, "Time of Completion", payment will be due to the Owner in the amount of **One Thousand Five Hundred and Ten dollars** ($**1,510.00**) per **Calendar Day** as liquidated damages, not as a penalty, but for delay damages to the OWNER. **The Bidder and the OWNER further agree that for each and every Calendar Day the Work or any portion thereof, remains incomplete after the Final date as established by the above paragraph, "Time of Completion", payment will be due to the OWNER in the amount of Two Hundred and Ninety dollars ($290.00) per Calendar Day as liquidated damages, not as a penalty, but for delay damages to the OWNER.** Such amount shall be deducted by the OWNER from any Contract payment due.

In the event of a default or breach by the CONTRACTOR and demand is made upon the surety to complete the project, in accordance with the Contract Documents, the surety shall be liable for liquidated damages pursuant to the Contract Documents in the same manner as the CONTRACTOR would have been.

MINOR INFORMALITY: OWNER reserves the right to reject any or all Bids and to waive any minor informality in any Bid or solicitation procedure (a minor informality is one that does not affect the competitiveness of the Bids).

ADDENDUM: The undersigned acknowledges receipt of the following addenda:

Addendum No. 1 dated		Received	
Addendum No. 2 dated		Received	
Addendum No. 3 dated		Received	
Addendum No. 4 dated		Received	

BID DOCUMENT EXECUTION AND ACKNOWLEDGEMENT: The undersigned Bidder certifies that he/she has read and understands the Section 00020 Invitation for Bids, the Section 00100 Instructions to Bidders, and all other requirements applicable to the bidding process provided in the Bid and Contract Documents.

BIDDER's CERTIFICATION OF NON-COLLUSION, NON-CONFLICT OF INTEREST, AND ANTI-LOBBYING (Section 00440): The undersigned Bidder, by its signature, represents and certifies that it has read and can affirmatively swear and subscribe to the statements in Section 00440 Non-Collusion, Non-Conflict of Interest, and Anti-Lobbying Certification. If the Bidder cannot affirmatively swear and subscribe to any of the statements in Section 00440, Bidder represents and certifies that it has provided a detailed written explanation with its Bid on separate pages annexed hereto. The undersigned Bidder further certifies that it has not in any way directly or indirectly had communication restricted in the City Code Chapter 2-7, Article 6 (Anti-Lobbying and Procurement) during the No-Lobbying Period as defined in Chapter 2-7.

BIDDER's CERTIFICATION AS TO NONRESIDENT PROVISIONS (Section 00475): The undersigned Bidder certifies that it has read Section 00475 Nonresident Bidder Provisions and **Bidder certifies that Bidder is a resident of _____** (*Bidder must write in the blank the state of which Bidder is a resident*).

Bidder will initial each of the blanks set forth below to represent and certify that the Bidder has completed and enclosed the corresponding supplemental Bid Documents with the Bid.

_____ MBE/WBE Compliance Document

The undersigned, by their signature, represents that they are submitting a binding offer and are authorized to bind the respondent to fully comply with the solicitation documents contained herein. The Respondent, by submitting and signing below, acknowledges that they have received and read the entire solicitation document packet sections defined in the solicitation including all revisions, addenda and documents incorporated by reference, and agree to be bound by the terms therein.

_____
Corporate Secretary, *if Bidder is a Corporation

_____
Email for Secretary

(Seal)

_____
Bidder

_____
Authorized Signature/Print Name

_____
Title

_____
Date

_____
Address

_____
Telephone Number / FAX Number

_____
Email for Person Signing Bid

_____
Email for Bidder's Primary Contact Person

EXAMPLE: BID PRICES SUBMITTED BY COMPUTER PRINTOUT

Project Name:

CIP ID #:

IFB #:

Bid Item #	Bid Item Description	Unit	Qty	Unit Bid Price	Total Amount
				Total Proposal:	

(YOUR FIRM'S NAME) certifies that the unit prices shown on this completed computer printout for all of the bid items and the alternates contained in this proposal are the unit prices intended and that its Bid will be tabulated using these unit prices and no other information from this printout. (YOUR FIRM'S NAME) acknowledges and agrees that the total bid amount shown will be read as its total bid. In the event of a mathematical error, the correct product, determined by using the "Unit Price" and "Quantity", and the correct sum, determined by totaling the correct line item Amounts, will prevail over the amount entered by the Bidder.

Signed: _____

Title: _____ Date: _____

End

16120S.1 Description

This item shall govern furnishing and installation of wiring of all types of wiring in accordance with the code, the manufacturer recommendations, the Drawings and as approved by the Engineer or designated representative.

This specification is applicable for projects or work involving either inch-pound or SI units. Within the text and accompanying tables, the inch-pound units are given preference followed by SI units shown within parentheses.

16120S.2 Submittals

The submittal requirements of this specification item include the wire size, characteristics and designation for each wire application, the size and types of conduit, terminal posts and fasteners proposed for the application and manufacturer installation recommendations..

16120S.3 Materials and Construction Methods

All materials shall be new and shall meet all requirements shown in the Standard Specifications for Electrical Construction of Austin Energy or succeeding agency and shall conform to the National Electrical Code (NEC) and all pertinent codes relating to this type work.

16120S.4 Measurement

Wiring shall be measured on a Lump Sum basis complete in place.

16120S.5 Payment

Wiring shall be paid for at the unit bid price for wiring. The unit bid price shall include full compensation for furnishing and installing all wiring, fittings, and related appurtenances as indicated on the Drawings and for furnishing all labor, tools, equipment and incidentals necessary to complete the work.

Payment will be made under:

Pay Item No. 16120S:	Wiring	Lump Sum

End

RELATED Cross Reference Materials

City of Austin Standard Specification Items

Designation	Description
Item No. 16550S	Street Light Standard Foundations

SPECIAL PROVISION
To Standard Specification Item No. 480S Concrete Paver Units for Sidewalks And Streetscape Requirements (Version 04/04/2012)

For this project, Item 480S, Concrete Paver Units for Sidewalks and Streetscape Requirements, dated 04-04-2012, of the City of Austin Standard Technical Specifications is hereby amended with respect to the clauses cited below. No other clauses or requirements of this section of the City of Austin Standard Technical Specification are waived or changed.

480S.8 Pedestrian Railing

ADD the following:
Contractor shall submit shop drawings for review on removable pedestrian ADA railing as recommended by manufacturer and approved by the owner.

480S.10 Payment

ADD the following:

Pay Item No. SP480S-PRP-4R	**Removable Pedestrian ADA Railing**	Per LF

END

SPECIAL PROVISION
To Standard Specification Item No. 559S
Portland Cement Concrete Box Culverts
(Version 10/03/2013)

For this project, Item 559S, Portland Cement Concrete Box Culverts, dated 10-03-2013, of the City of Austin Standard Technical Specifications is hereby amended with respect to the clauses cited below. No other clauses or requirements of this section of the City of Austin Standard Technical Specification are waived or changed.

559S.12 - Payment

ADD the following:

Pay Item No.	SP559S-4x0.33	Cast-In-Place Concrete Box Culverts (4 ft x 0.33 ft)	Per LF
	SP559S-5x0.5	Cast-In-Place Concrete Box Culverts (5 ft x 0.5 ft)	Per LF

END

SPECIAL PROVISION
To Standard Specification Item No. 608S (Version 09/26/2012)
Planting

For this project, Item No. 608S, Planting, of the City of Austin Standard Technical Specifications is hereby amended with respect to the clauses cited below. No other clauses or requirements of this section of the City of Austin Standard Technical Specification are waived or changed.

1. 608S.2 Submittals

Delete the Section 608S.2.A in its entirety.

Replace with the following:

A. Plant Material Submittals: Submittals and review shall be organized as follows:

1. Preliminary Review: Within not less than 90 days prior to installation, plants are to be submitted for review and approval. Submit representative photographs of all plant materials for review in the required sizes and with available quantity. The intent of photographs is so that the Landscape Architect or Project Landscape Representative can clearly see the range of character and quality of plant material being proposed.

2. Submittal Form:

a. Submittal shall include digital photographs in JPG or PDF format and provided as both paper copy and digital file. A minimum of two digital photographs illustrating each specified plant at not less than 300 dpi (dots per inch) image quality with additional text and information as required below:

(1) One photograph of the group or field of plants
(2) At least one photograph of a proposed individual plant.
(3) Photographs are to be digitally formatted on 8 ½” x 11” sheets
(4) Text on the PDF is to include
  (a) Name and address of the supplier
  (b) Botanical and Common name of the plant
  (c) Measured dimensions of the plant, the container size, or the root ball size and dimensions.
(5) Tree photographs shall
  (a) Include a person, marked rod, or other device to determine scale
  (b) Be taken from not less than two different directions to give best view of overall tree quality
(6) A clear statement of the quantity available for selection at each nursery source and for each different plant or size of plant that is and will be available at time of pick up for delivery to project site.

(7) Plants delivered to project site are to reasonably match the provided photographs. Landscape Architect or Project Landscape Representative retains the right to reject unsatisfactory plant material upon delivery.

3. Nursery Review and Tagging: The Landscape Architect or Project Landscape Representative may elect to review and/or tag any of the material at the place of growth. After review and acceptance of plant material via photographic submittals, specific items may be selected for field review and/or tagging by the Landscape Architect or Project Landscape Representative. The Contractor shall arrange the review, shall accompany the Landscape Architect or Project Landscape Representative for all reviews and tagging of plants at the place of growth, and shall be present upon delivery of all plant material at the project site.

4. Photograph Acceptance and Nursery Review: Material acceptance through photographs does not prevent rejection of unsatisfactory plant material upon delivery. The Landscape Architect or Project Landscape Representative reserves the right to refuse review from photographs or at the grower if he/she deems suitable material or sufficient quantities are not available. The Contractor shall ensure there are sufficient quantities of plant material present whenever trips to a nursery are arranged for the purpose of tagging project material.

5. Unavailable Material: If any plant specified is not obtainable, proof must be submitted in writing. A written proposal for the use of the nearest equivalent in size or plant variety (no additional payment will be made for plant substitutions) will be considered. Substitutions of plant materials will not be permitted unless authorized in writing by the Landscape Architect or Project Landscape Representative.

6. Distant Material: Preliminary review via photograph submittals shall include a person adjacent to plant material. For trees, a person, marked rod, or other device must be adjacent to determine scale. Landscape Architect or Project Landscape Representative retains the right to reject unsatisfactory plant material upon delivery.

7. Special Conditions: The above provisions do not relieve the Contractor of the responsibility of obtaining specified materials. Every effort to supply specified materials must be made, including contract growing, arranging other special growing conditions, or making other arrangements.

8. Landscape Architect or Project Landscape Representative can be reached at 512-974-7006 or Kimberly.gilbertson@austintexas.gov.

9. Sample Photographs / Examples of Suitable Plant Material: Refer to Appendix 1 at the end of this special provision for sample examples of plant material with

appropriate character and quality. The photographs in Appendix 1 are meant to serve as a guide for suitable project plant material.

Delete the Section 608S.2.B in its entirety.

2. 608S.4 Materials

Add the following paragraphs to the end of Section 608S.4.E:

E. Mulch

Hardwood Mulch (no cypress or cedar mulch) shall be used as shown on the Drawings.

Gravel Mulch, per ECM 1.6.7, is acceptable in planting beds of rain gardens and biofiltration ponds only. Gravel Mulch shall be 2 to 4 inches Colorado river rock.

Add the following paragraph to the end of Section 608S.4.I:

I. Fertilizer

All proposed fertilization shall be submitted for approval to the Landscape Architect or Project Landscape Representative along with proof of the need for fertilizing per the results of a site soil test.

Delete the Section 608S.4.K in its entirety.

Replace with the following:

K. Stakes

Stakes shall be metal “T” fence posts driven outside the rootball and connected to the tree with a web fabric tape (e.g. Arbor Tie) as shown in the Special Detail “SD-1 – Tree Planting – Single Trunk” and “SD-2 – Tree Planting - Multi Trunk.” The web fabric tape should be tied to form a figure eight (8) twist that is not tied to the trunk, just attached to the posts. The point of contact should be only about halfway up the trunk. All stakes and web fabric tape shall be removed after one year.

Delete the Section 608S.4.L in its entirety.

3. 608S.5 Construction Methods

Add the following to the end of the sentence of the Section 608S.5.E:

and circling or girdling roots.

Delete the Section 608S.5.K in its entirety.

Replace with the following:

K. Plant Supports and Staking Trees

Plant supports such as staking shall be as shown on the Drawings or as required by the Landscape Architect or Project Landscape Representative.

All new trees shall be staked for support during the same day as planted. Unless shown otherwise on the Drawings, the trees shall stand approximately vertical after staking. The Contractor shall be responsible for material remaining approximately vertical and straight for all given conditions and shall repair tree supports as often as required until final acceptance of the work.

All new trees shall be staked per Special Detail "SD-1 – Tree Planting – Single Trunk" and "SD-2 – Tree Planting – Multi Trunk." Staking shall include metal "T" fence posts driven outside the rootball and connected to the tree with a web fabric tape (e.g. Arbor Tie). The web fabric tape should be tied to form a figure eight (8) twist that is not tied to the trunk, just attached to the posts. The point of contact should be only about halfway up the trunk. All stakes and web fabric tape shall be removed after one year.

No wires will be considered an acceptable means of connecting the posts to the tree.

Add the following sections after Section 608S.5.P

Q. Planting

Planting shall be installed complete in place and as indicated on the Drawings and Special Details "SD-1 – Tree Planting – Single Trunk," "SD-2 – Tree Planting – Multi Trunk," "SD-3 – Shrub Planting," and "SD-4 – Perennial/Ground Cover Planting."

R. Hardwood Mulch

Hardwood Mulch shall be installed as indicated on the Drawings.

S. Gravel Mulch

Gravel Mulch shall be installed in the planting beds of rain gardens and biofiltration ponds as indicated on the Drawings, complete in place. Gravel Mulch shall be installed to a depth of 3 to 4 inches.

4. 608S.6 Plant Establishment

Delete the second sentence in the first paragraph in its entirety.

Replace with the following:

In those instances where planting 'out of season' is allowed in writing by the Landscape Architect or Project Landscape Representative, "Plant Establishment" shall commence with notice of substantial completion and shall extend for a minimum of twelve (12) months.

Delete the Sections 608S.6.A – I in its entirety.

Replace with the following:

A. Landscape Maintenance Checklist

1. Remove any broken or fallen branches from trees. Remove sucker growth from tree trunks. Prune any branches that interfere with public safety. Shrubs and ornamental grasses to not require pruning. DO NOT SHEAR. Do not cut ornamental grasses in fall or winter. No pruning of ornamental grasses is required or allowed. Improperly cut or pruned plant materials may require replacement, at the discretion of the Owner and the expense of the Contractor.

2. Inspect stakes and web fabric tape for damage. Any damaged or destroyed stakes, or web fabric tape shall be removed and replaced by the Contractor in accordance with the Special Details shown on the Drawings. This shall include any adjustment to the stakes or web fabric tape to prevent girdling of trees.

3. Remove any weeds listed on the weed list in Standard Specification 609S larger than 2 inches high or wide from the median, planting areas, rain gardens, and biofiltration ponds. Weeds 2 inches and larger must be removed, not just killed.

4. Replace Hardwood Mulch which has been knocked or washed out of median and planting beds. Smooth Hardwood Mulch layer if it has been disturbed. Add new Hardwood Mulch if less than 2 inches.

5. Replace Gravel Mulch which has been knocked out of rain gardens and biofiltration ponds. Smooth Gravel Mulch layer if it has been disturbed. Add new Gravel Mulch if less than 2 inches.

6. Check plants for signs of stress or disease. Replace any plants that meet conditions for replacement at the Contractor's expense. Request authorization to replace other dead or missing plants. Note: Contractor must request authorization to make replacements within one week of the damage becoming evident.

7. Treat for any signs of disease or pest infestation.

8. All plants and sod areas shall be watered as frequently as necessary to ensure healthy establishment during plant establishment period. Additional watering may be required for plants and sod areas that are dry and stressed.

9. Clean up and haul off all debris resulting from the maintenance operation plus any debris which may have accumulated in the median, planting beds, rain gardens, and biofiltration ponds.

The Contractor shall perform “Plant Establishment” as prescribed by the Landscape Maintenance Checklist and submit to the Landscape Architect or Project Landscape Representative for review and approval on a monthly basis.

5. 608S.8 Measurement

Delete the paragraph in its entirety.

Replace with the following:

Planting will be measured as each plant for the indicated type and size, and installed per Special Details “SD-1 – Tree Planting – Single Trunk,” “SD-2 – Tree Planting – Multi Trunk,” “SD-3 – Shrub Planting,” and “SD-4 – Perennial/Ground Cover Planting,” complete in place.

Hardwood Mulch will be measured per cubic yard complete in place as indicated on the Drawings.

Gravel Mulch will be measured per cubic yard complete in place for the planting beds of rain gardens and biofiltration ponds as indicated on the Drawings.

Plant Establishment for the whole project will be measured by the number of months of actual service performed as prescribed in the Section 608S.6 of this Special Provision SP608S.

6. 608S.9 Payment

Add the following paragraphs after the last paragraph to the Section 608S.9 Payment

Payment for Planting, measured as prescribed above, will be paid for at the unit price bid for the indicated type and size. The unit price bid shall include full compensation for planting, materials, time, labor, tools, equipment, and other incidentals necessary to complete the planting, as indicated on the Drawings, complete in place.

Payment for Hardwood Mulch, measured as prescribed above, will be paid for at the unit price bid. The unit price bid shall include full compensation for furnishing, hauling, and installing Hardwood Mulch, time, labor, tools, equipment, and other incidentals necessary to complete the installation, as indicated on the Drawings, complete in place.

Payment for Gravel Mulch, measured as prescribed above, will be paid for at the unit price bid. The unit price bid shall include full compensation for furnishing, hauling, and installing Gravel Mulch, time, labor, tools, equipment, and other incidentals necessary to complete the installation, as indicated on the Drawings, complete in place.

Payment for Plant Establishment, measured as prescribed above, will be paid for at the unit price bid. The unit price bid shall include full compensation for furnishing, hauling, installing, planting, materials, time, labor, tools, equipment, and other incidentals necessary to complete the Work, complete in place.

Add the following pay items:

Payment will be made under:

Pay Item No.	**Item Description**	**Unit**
SP608S-CE	Planting Type Cedar Elm, Size in inches 3”	Per Each
SP608S-LI	Planting Type Live Oak, Size in inches 3”	Per Each
SP608S-LA	Planting Type Lacy Oak, Size in inches 2”	Per Each
SP608S-MP	Planting Type Mexican Plum, Size in inches 2”	Per Each
SP608S-ST	Planting Type Smoke Tree, Size 20 Gallon	Per Each
SP608S-AO	Planting Type Anacacho Orchid, Size 45 Gallon	Per Each
SP608S-PH	Planting Type Possumhaw Holly, Size 45 Gallon	Per Each
SP608S-P1	Planting Type Perennial, Size 1 Gallon	Per Each
SP608S-P5	Planting Type Perennial, Size 5 Gallon	Per Each
SP608S-WQ	Planting Type Water Quality Pond Perennial, Size 1 Gallon	Per Each
SP608S-HM	Hardwood Mulch, Plan Quantity	Per Cubic Yard
SP608S-GM	Gravel Mulch – Installed Per Plan for Rain Gardens and Biofiltration Ponds	Per Square Yard
SP608S-PE	Plant Establishment	Per Month

END

Appendix 1 – Sample Photographs / Examples of Suitable Plant Material

Horseherb (Ground cover) – 1 Gallon

Sideoats Grama (Ornamental Grass) – 1 Gallon

Lindheimer Muhly (Ornamental Grass) – 5 Gallon

Red Yucca (Perennial) – 1 Gallon

Zexmenia (Perennial) – 1 Gallon

Coreopsis Lanceleaf (Perennial) – 1 Gallon

Purple Trailing Lantana (Perennial) – 1 Gallon

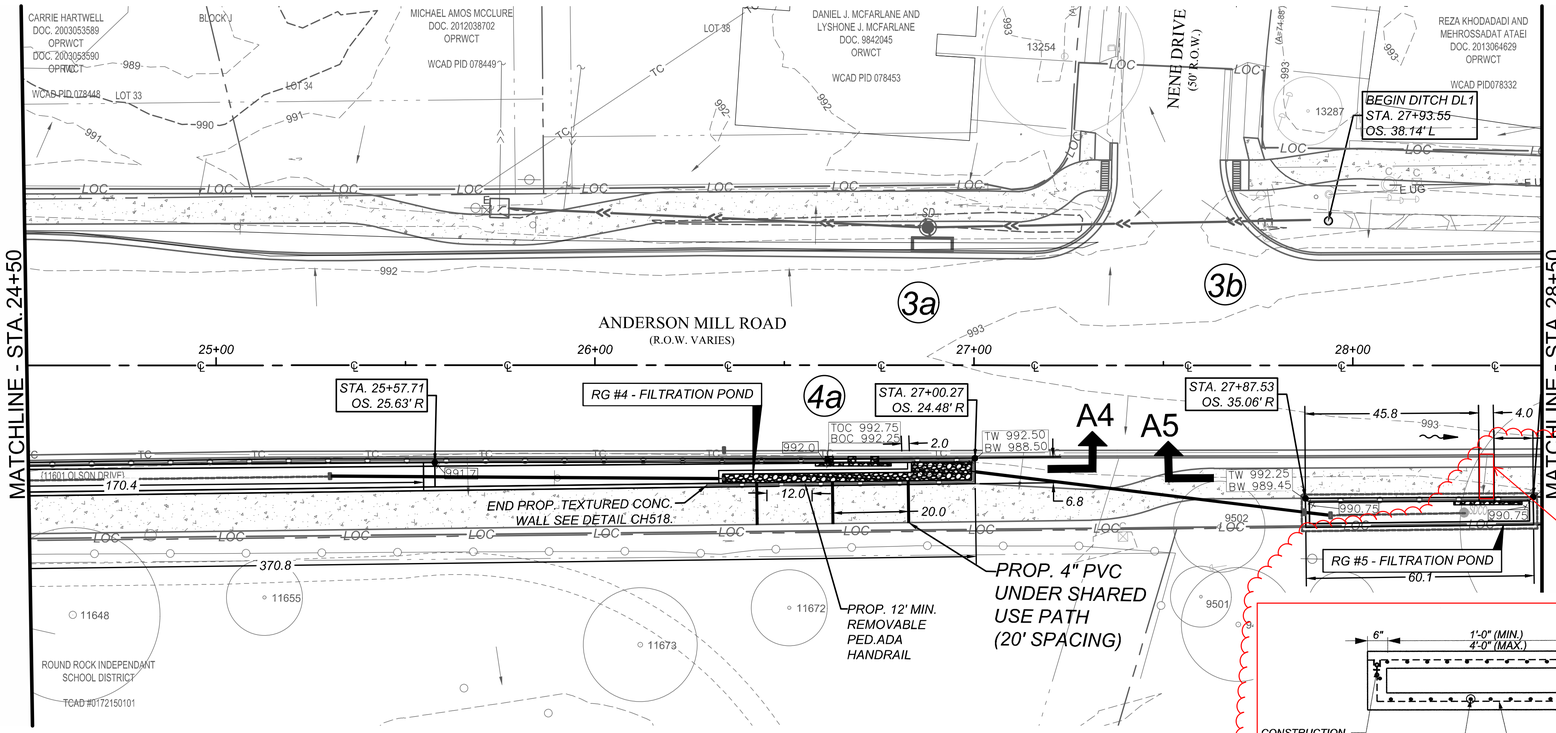
Dwarf Yaupon Holly (Shrub) – 5 Gallon

American Smoke Tree – 20 Gallon

Anacacho Orchid – 45 Gallon

Mexican Plum – 2” Caliper

Cedar Elm – 3” Caliper



REV NO.	BY	DATE	REVISED CHANNEL Y' B.C.
A3	EZ	03/24/26	

STATE OF TEXAS
XIAOQIN ZHANG, P.E.
96436
LICENSED
PROFESSIONAL ENGINEER
2020-03-27

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY XIAOQIN ZHANG, P.E. LIC. # 96436

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

ANDERSON MILL ROAD REGIONAL MOBILITY IMPROVEMENTS
SPICEWOOD PARKWAY TO US 183

RAIN GARDEN & DITCH PLAN
STA. 24+50 - 32+50

CITY OF AUSTIN
FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	MWM	10/17
DRAWN BY	JT/JP	8/18
DESIGNED BY	JT/EZ	8/18
CHECKED BY	EZ/CG	8/18
REVIEWED BY	ESD	8/18

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HORIZONTAL SCALE IN FEET

GP-2019-0210.ATD

CH507 | 82 OF 142

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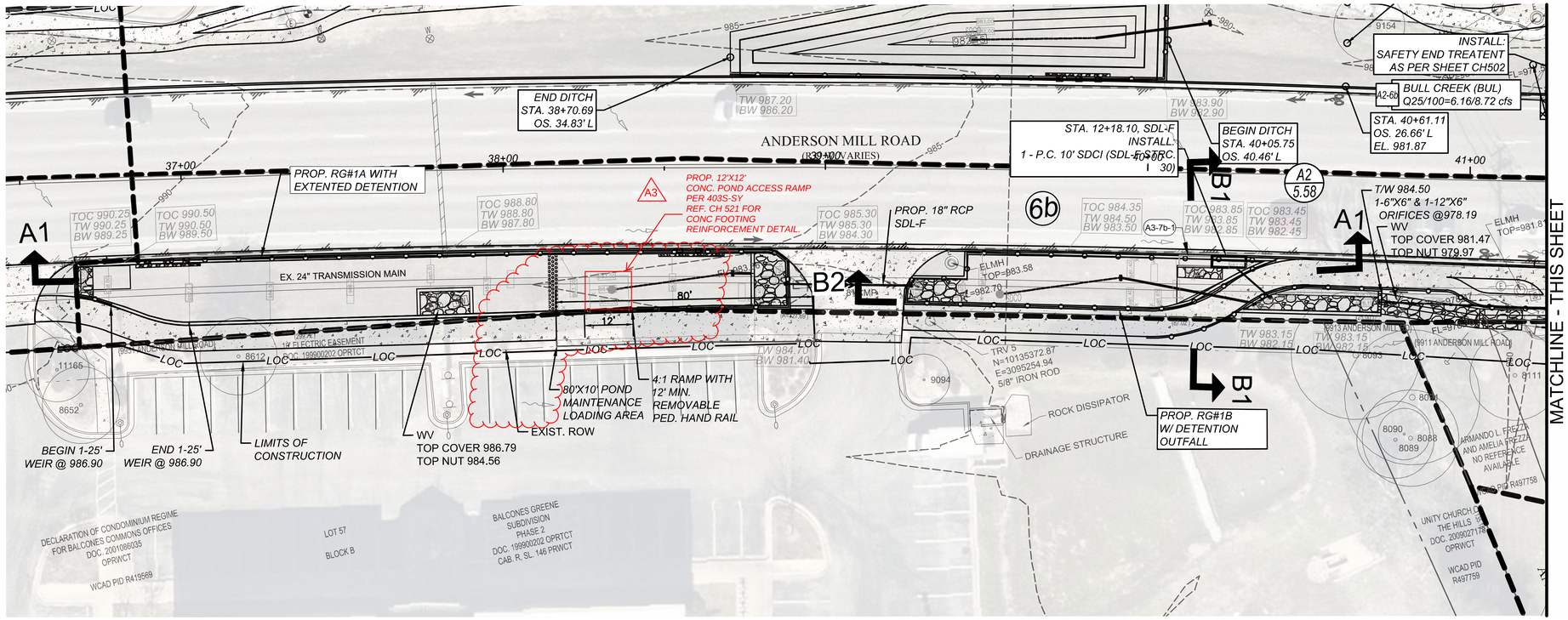

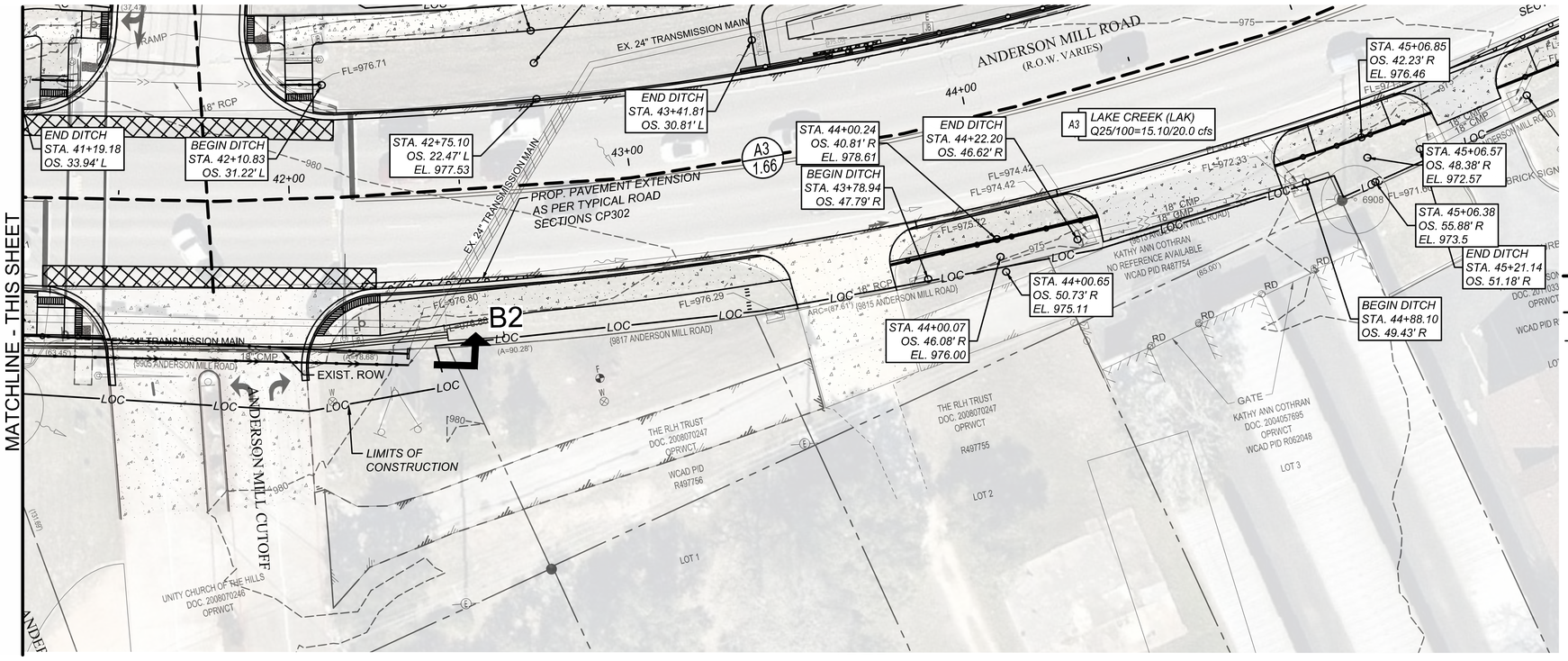

LEGEND

- 6b — PROP. CONTRIBUTING DRAINAGE AREA
- A3-7b-1 — INLET NUMBER
- DRAINAGE AREA BOUNDARY
- PROP. STORM DRAIN LINE
- PROP. 6" PERF. PVC

REV NO.	BY	DATE	REVISION DESCRIPTION
A3	EZ	03/24/26	ADDED POND ACCESS

STATE OF TEXAS
XIAOQIN ZHANG, P.E.
96436
LICENSED
PROFESSIONAL ENGINEER
2020-03-27

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THIVAKARAN, JOTHIKA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

ANDERSON MILL ROAD REGIONAL MOBILITY IMPROVEMENTS
SPICEWOOD PARKWAY TO US 183

PROPOSED WATER QUALITY & DETENTION POND
RG#1A AND RG#1B

NOTES	NAME	DATE
SURVEY BY	MWM	10/17
DRAWN BY	JT/JP	8/18
DESIGNED BY	JT/EZ	8/18
CHECKED BY	EZ/CG	8/18
REVIEWED BY	ESD	8/18

0 20 40
HORIZONTAL SCALE IN FEET

GP-2019-0210.ATD

CH512 | 87 OF 142

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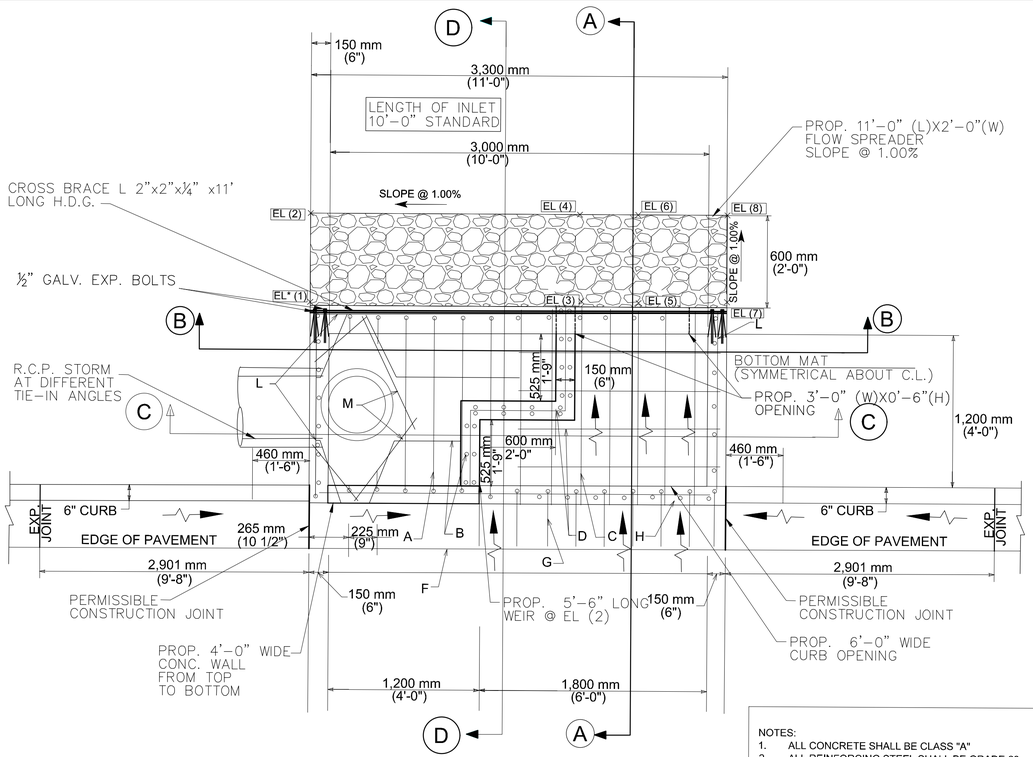
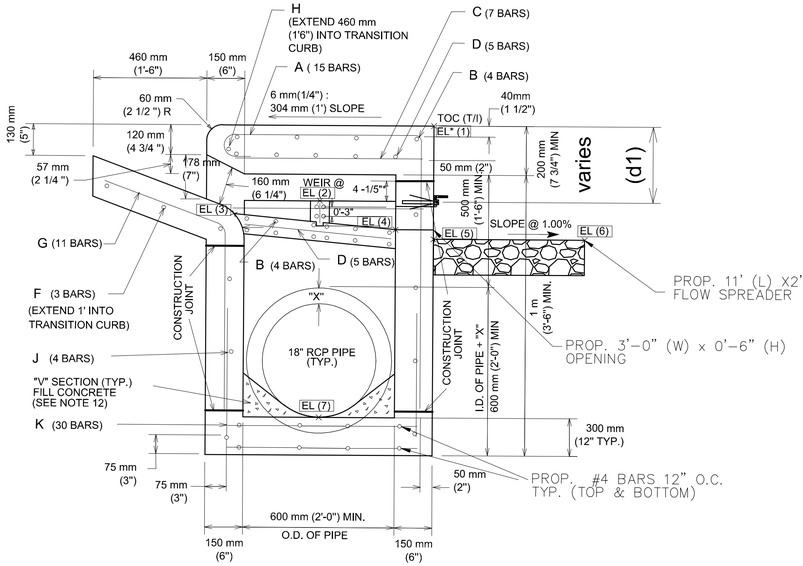


PLAN VIEW
N.T.S.



ELEVATION - SECTION A-A
N.T.S.

FLOW SPREADER KEY ELEVATION TABLE (PLAN VIEW)

POND DESCRIPTION	EL (1)	EL (2)	EL (3)	EL (4)	EL (5)	EL (6)	EL (7)	EL (8)
RG#1B	989.80	989.78	989.87	989.85	980.90	989.88	989.92	989.90
DET. POND #2	986.77	986.77	986.77	986.77	986.76	986.76	986.76	986.76
RG #7	970.82	970.80	970.89	970.87	971.10	970.90	970.94	970.92
RG #8	963.07	963.05	963.10	963.07	963.30	963.28	963.32	963.30

CURB INLET KEY ELEVATION AND CRITICAL DIMENSION TABLE (SECTION A-A)

POND DESCRIPTION	TOC (T/I) EL (1)	WEIR EL (2)	EL (3)	EL (4)	EL (5)	EL (6)	PIPE /B.C. F.L.EL (7)	DIM.* (d1) ft
RG#1B	983.45	982.40	982.20	982.15	980.90	989.88	980.25	1.05'
DET. POND #2	991.30	990.25	990.00	989.95	989.75	989.73	989.20	1.05'
RG #7	973.80	972.60	972.00	971.95	971.10	970.90	971.50	1.20'
RG #8	965.15	964.10	963.60	963.55	963.30	963.28	963.70	1.05'

NOTES:
1. ALL CONCRETE SHALL BE CLASS "A"
2. ALL REINFORCING STEEL SHALL BE GRADE 60
3. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTERS OF BARS.
4. VERTICAL STEEL MAY BE SPLICED (380 mm or 15" MIN. LAP) IN THE LOWER ONE-HALF OF ALL INLET WALLS.
5. IN AREAS OF CONFLICT BETWEEN REINFORCING STEEL, PIPES AND MANHOLE FRAME, THE REINFORCEMENT SHALL BE BENT OR ADJUSTED TO CLEAR AS DIRECTED BY THE ENGINEER.
6. QUANTITIES SHOWN HEREON ARE FOR THE CONTRACTOR'S INFORMATION ONLY. PAYMENT WILL BE MADE FOR EACH INLET OF THE TYPE SPECIFIED, COMPLETE IN PLACE INCLUDING MANHOLE FRAME AND OVER.
7. CHAMFER ALL EXPOSED EDGES 20 mm (3/4 ").
8. MANHOLE FRAME AND COVER SHALL BE IN ACCORDANCE WITH CITY OF AUSTIN STANDARD 503S-1.
9. THE CONTRACTOR MAY PROPOSE ALTERNATE PROCEDURES FOR THE CONSTRUCTION OF INLETS, INCLUDING PRECAST UNITS. PLANS FOR SUCH PROPOSED ALTERNATES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL BEFORE CONSTRUCTION.
10. ALL INLET WALLS SHALL BE FORMED EXCEPT WHERE THE NATURE OF THE SURROUNDING MATERIAL IS SUCH THAT IT CAN BE TRIMMED TO A SMOOTH VERTICAL FACE. WHEN INLET WALLS ARE PLACED TO NEAT EXCAVATION LINES THE WALL THICKNESS SHALL NOT EXCEED 10 INCHES.
11. PAYMENT FOR INLET AT THE CONTRACT PRICE SHALL INCLUDE THE TRANSITION CURB.
12. INVERT OF INLET SHALL BE SLOPED 1:20 WITH FILL CONCRETE, SHAPED AS "V" SECTION
13. NO SPLICING OF REINFORCING STEEL SHALL BE PERMITTED UNLESS OTHERWISE NOTED ON THE PLANS OR PERMITTED IN WRITING BY THE ENGINEER.
14. FOR EXPANSION JOINT DOWEL AND DOWEL LOCATION DETAILS REFER STD. 430S-3.

SPECIAL NOTES:

1) THE TOTAL WEIR LENGTH PROVIDED FROM THE MODIFIED CURB INLET IS 11'-6" LONG INCLUDING A 5.5' PROPOSED WEIR AND A 6-FOOT WIDE OPENING AT THE BACK OF THE CURB INLET AT WATER QUALITY ELEVATION (WQE).

2) A MAXIMUM HEADWATER OF 0.35' (4-1/5") IS ASSUMED FOR A 25-YEAR DESIGN STORM EVENT.

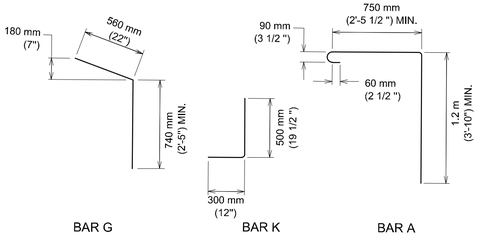
3) RG#8 CURB INLET BACK FLOW OPENINGS ARE 2-5'LX3'WX4"D (REFER TO SHT. CH514). A3

RG#5 PROP.12'LX4'WX4"D B.C. IS SHOWN ON SHTs. CH507 & CH514.

TABLE OF QUANTITIES
FOR 18" OUTLET PIPE
REINFORCING STEEL QUANTITIES

BARS	SIZE	SPACING	NUMBER	LENGTH	WEIGHT
A	4	230mm (9")*	15	2 m (7'-0")	73
B	4	250 mm (10")	4	3.25 m (10'-8")	29
C	4	460 mm (18")	7	760 mm (2'-6")	12
D	6	150 mm (6")	5	3.25 m (10'-8")	80
E	4	300 mm (12")	6	760 mm (2'-6")	10
F	4	250 mm (10")	3	4 m (13'-0")	35
G	4	300 mm (12")	11	1.25 m (4'-3")	31
H	6	--	1	4.25 m (14'-0")	20
J	4	300 mm (12")	7	3.25 m (10'-8")	50
K	4	230 mm (9")*	30	800 mm (2'-7 1/2")	52
L	4	300 mm (12")*	6	1.3 m (4'-4")	17
M	4	-	4	500 mm (1'-8") AVG	4
TOTAL STEEL, LB.					413
TOTAL CONCRETE, C.Y.					4.06

* EXCEPT AS SHOWN ON PLAN



CURB INLET REBAR DETAIL

MODIFIED CURB INLET (TYPE G-1R) DETAIL SHEET 1

REV NO.	BY	DATE	REVISION DESCRIPTION
A3	EZ	03/24/26	REVISE NOTE 3) .

STATE OF TEXAS
XIAOQIN ZHANG, P.E.
96436
LICENSED
PROFESSIONAL ENGINEER
2020-03-27

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THIVAKARAN, JOTHIKA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

ANDERSON MILL ROAD REGIONAL MOBILITY IMPROVEMENTS
SPICEWOOD PARKWAY TO US 183

WATER QUALITY AND DETENTION POND
MODIFIED CURB INLET DETAILS SHEET 1

CITY OF AUSTIN FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	MWM	10/17
DRAWN BY	JT/JP	8/18
DESIGNED BY	JT/EZ	8/18
CHECKED BY	EZ/CG	8/18
REVIEWED BY	ESD	8/18

N.T.S.

GP-2019-0210.ATD

CH519 | 94 OF 142

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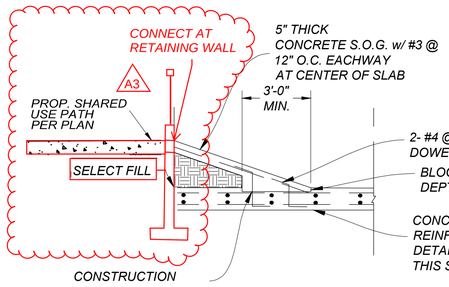
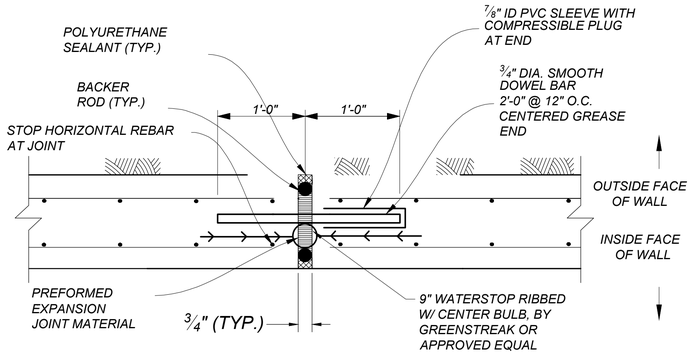
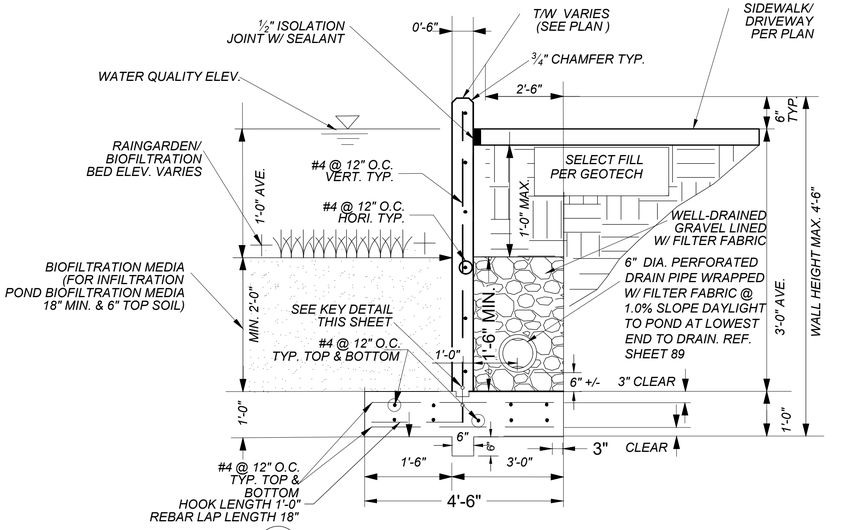


FOUNDATION SECTION AT ACCESS RAMP
N.T.S.

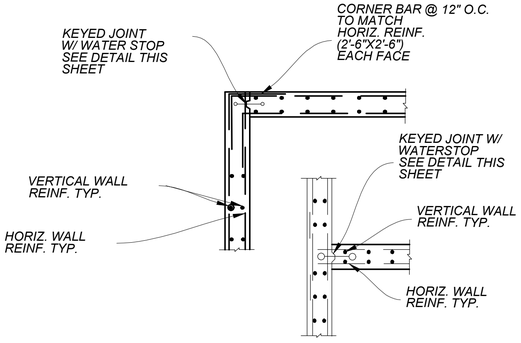


(MAX. SPACING @ 100' O.C.)

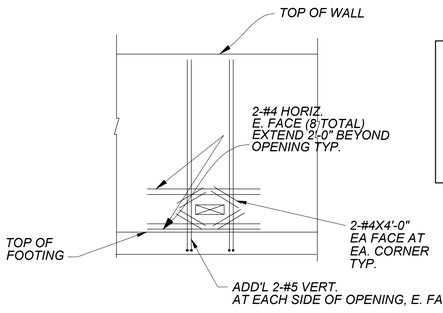
EXPANSION JOINT AT WALL
N.T.S.



1 RETAINING WALL DETAIL (HEIGHT 4'-6"TYP.)
(6" WALL WITHOUT PEDESTRIAN HANDRAIL) N.T.S.

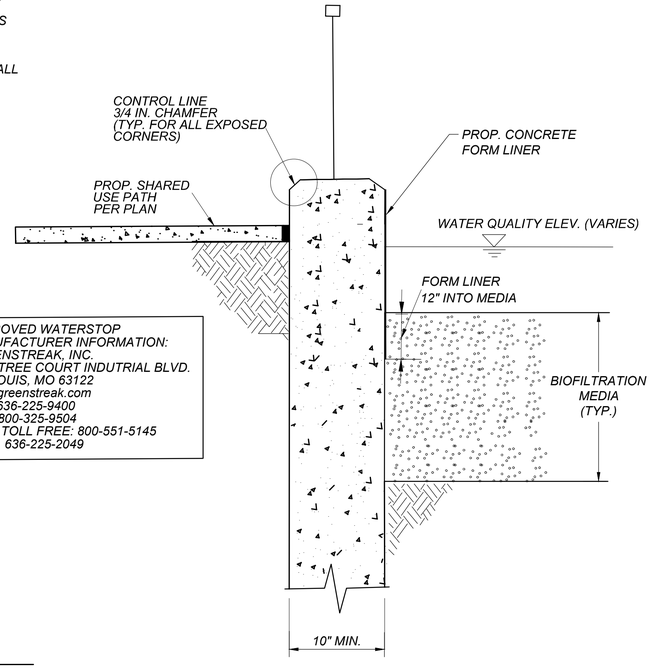


CORNER DETAILS
N.T.S.

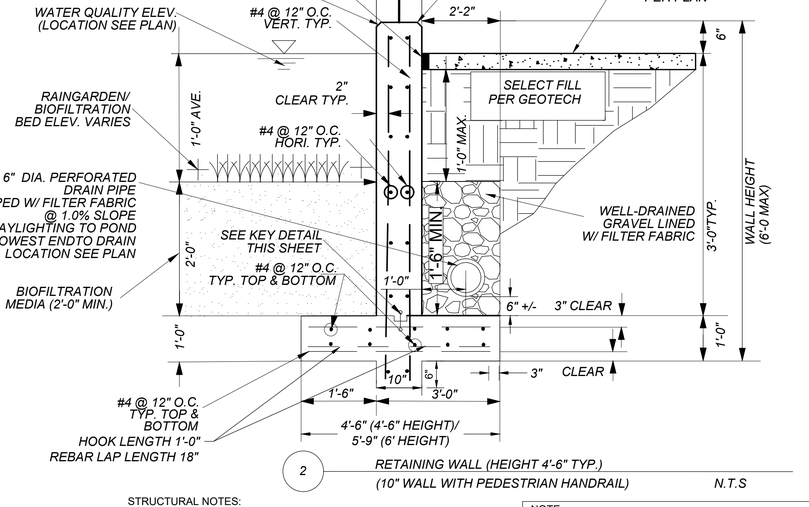


ADD'L REBAR AT 6"X6" OPENING
N.T.S.

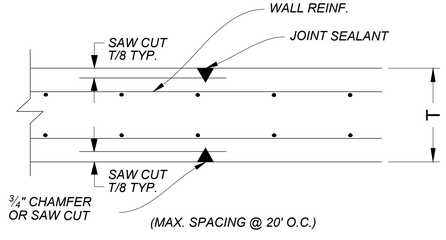
APPROVED WATERSTOP MANUFACTURER INFORMATION:
GREENSTREAK, INC.
3400 TREE COURT INDUTRIAL BLVD.
ST. LOUIS, MO 63122
www.greenstreak.com
TEL. 636-225-9400
800-325-9504
FAX: TOLL FREE: 800-551-5145
FAX: 636-225-2049



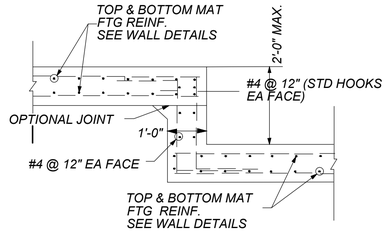
CONCRETE FORM LINER DETAIL
(RAIN GARDEN RETAINING WALL FOR WALL HEIGHT > 2.0 FT) N.T.S.



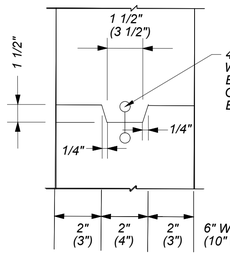
2 RETAINING WALL (HEIGHT 4'-6" TYP.)
(10" WALL WITH PEDESTRIAN HANDRAIL) N.T.S



CONTRACTION JOINT
N.T.S.



FOOTING STEP TYP. DETAIL
N.T.S.



KEY DETAIL
N.T.S.

STRUCTURAL NOTES:

1. Provide normal weight concrete having the following minimum 28 day compresive strengths and general characteristics:

Usage	Min. 28 day compressive strength
All	4,000 PSI - COA Class S concrete

2. Minimum concrete 28 day compressive strength shall be based on historical performance data from the selected transit mix concrete supplier and approved by the engineer.
3. It shall be the responsibility of the concrete supplier to select the proper type of portland cement (including quantities), aggregates (including quantities) and water cement ratio to produce the required minimum 28 day compressive strengths.
4. Reinforcing steel shall be new deformed billet steel conforming to A.S.T. M. A-615, Grade 60.
5. Reinforcing bars shall be detailed in accordance with the A.C.I. Detailing Manual. Provide bar supports and spacers as required.
6. The following minium concrete cover shall be provided for reinforcement:
   A. Concrete footing ..... 3" Clear
   B. Wall ..... 2" Clear

NOTE:

RETAINING WALL RECOMMENDATIONS FROM HOLT ENGINEERING:
WALL FOOTING BE SEATED MIN. 12" INTO UNDISTURBED DARK BROWN FAT CLAY AT MIN. DEPTH OF 24" BELOW POND BOTTOM.

ALLOWABLE BEARING: 2,000 PSF
FRICTION FACTOR: 0.3
KEY MAY BE USED: 12" BELOW FOOTING;
ALLOWABLE LATERAL BEARING: 250 PSF;
EQUIVALENT FLUID PRESSURE: 100 PCF.

FACTOR OF SAFETY

	OVERTURNING	SLIDING	MAX BEARING PRESSURE
	>2	>1.5	2000
WALL WITHOUT HANDRAIL	2.70	1.57	1185
WALL WITH HANDRAIL	2.73	1.58	1201
6' WALL	2.55	1.62	1609

REV NO.	BY	DATE	REVISION DESCRIPTION
A3	EZ	03/23/26	REVISE RAMP DETAIL

STATE OF TEXAS
XIAOQIN ZHANG, P.E.
96436
LICENSED
PROFESSIONAL ENGINEER
2020-03-27

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY XIAOQIN ZHANG, P.E. LIC. # 96436

I CERTIFY THAT THESE DRAWINGS ARE COMPLETE, ACCURATE AND ADEQUATE FOR THEIR INTENDED PURPOSES, INCLUDING CONSTRUCTION, BUT ARE NOT AUTHORIZED FOR CONSTRUCTION UNTIL FORMAL CITY APPROVAL.

THIVAKARAN, JOTHIKA

CITY OF AUSTIN, TEXAS
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

ANDERSON MILL ROAD REGIONAL MOBILITY IMPROVEMENTS
SPICEWOOD PARKWAY TO US 183

WATER QUALITY AND DETENTION POND
RETAINING WALL DETAILS

CITY OF AUSTIN FOUNDED 1839

NOTES	NAME	DATE
SURVEY BY	MWM	10/17
DRAWN BY	JT/JP	8/18
DESIGNED BY	JT/EZ	8/18
CHECKED BY	EZ/CG	8/18
REVIEWED BY	ESD	8/18

N.T.S.

GP-2019-0210.ATD

CH521 | 96 OF 142

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12/9/2020 10:24 AM